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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	3	NOV 26	MARPAT enhanced with FSORT command
NEWS	4	NOV 26	CHEMSAFE now available on STN Easy
NEWS	5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	6	DEC 01	ChemPort single article sales feature unavailable
NEWS	7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	14	FEB 10	COMPENDEX reloaded and enhanced
NEWS	15	FEB 11	WTEXTILES reloaded and enhanced
NEWS	16	FEB 19	New patent-examiner citations in 300,000 CA/Caplus patent records provide insights into related prior art
NEWS	17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	23	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:53:56 ON 08 MAR 2009

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 13:54:07 ON 08 MAR 2009

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 MAR 2009 HIGHEST RN 1116745-20-0

DICTIONARY FILE UPDATES: 6 MAR 2009 HIGHEST RN 1116745-20-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

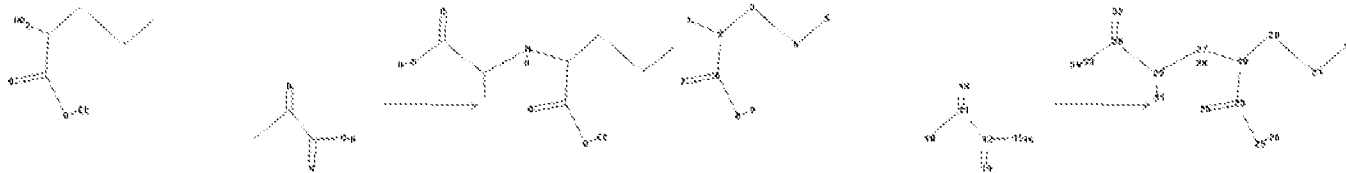
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10599918 formation of II.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 19 20 21 22 23 24 25
26 27 28 29 30 31 32 33 34

chain bonds :
 1-2 2-3 2-6 3-4 4-5 6-7 6-8 8-9 10-11 11-12 11-13 12-14 12-15 15-16
 19-23 19-20 19-27 20-21 21-22 23-24 23-25 25-26 27-28 27-29 29-30 29-31
 30-32 30-33
 33-34
 exact/norm bonds :
 1-2 6-7 6-8 11-13 19-27 23-24 23-25 27-29
 exact bonds :
 2-3 2-6 3-4 4-5 8-9 10-11 11-12 15-16 19-23 19-20 20-21 21-22 25-26
 27-28 29-30 29-31 33-34
 normalized bonds :
 12-14 12-15 30-32 30-33

Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 19:CLASS
 20:CLASS 21:CLASS
 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS
 30:CLASS 31:CLASS
 32:CLASS 33:CLASS 34:CLASS
 fragments assigned product role:
 containing 19
 fragments assigned reactant/reagent role:
 containing 1
 containing 10

L1 STRUCTURE UPLOADED

=> d L1
 L1 HAS NO ANSWERS
 L1 STR
 *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> file casreact		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.48	0.70

FILE 'CASREACT' ENTERED AT 13:54:37 ON 08 MAR 2009
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 COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE CONTENT:1840 - 2 Mar 2009 VOL 150 ISS 10

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 *

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=> s l1 sss full
FULL SEARCH INITIATED 13:54:44 FILE 'CASREACT'
SCREENING COMPLETE -      5685 REACTIONS TO VERIFY FROM      300 DOCUMENTS

100.0% DONE      5685 VERIFIED      4 HIT RXNS      4 DOCS
SEARCH TIME: 00.00.03
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L2 4 SEA SSS FUL L1 (4 REACTIONS)

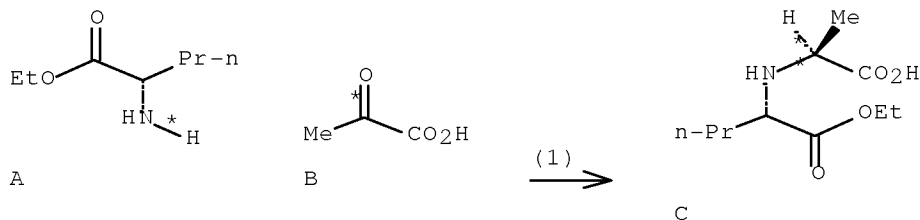
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=> d ibib abs fhit 1-
YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y
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```
L2  ANSWER 1 OF 4  CASREACT  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:      144:331697  CASREACT  Full-text
TITLE:                  An improved process for the preparation of
                        N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine
INVENTOR(S):            Chava, Satyanaryana; Bandari, Mohan; Mathuresh, Kumar
                        Sethi
PATENT ASSIGNEE(S):     Matrix Laboratories Ltd., India
SOURCE:                 PCT Int. Appl., 9 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:          Patent
LANGUAGE:               English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2006006183	A2	20060119	WO 2005-IN225	20050704
WO 2006006183	A3	20070531		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
IN 2004CH00669	A	20060602	IN 2004-CH669	20040712
PRIORITY APPLN. INFO.:			IN 2004-CH669	20040712

AB An improved process for the preparation of N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine from norvaline Et ester and pyruvic acid involves bubbling of hydrogen gas into the reaction mixture at atmospheric pressure or a slightly neg. pressure at low temperature in the presence of palladium on carbon. Thus, hydrogenation of a mixture of 100 g Et L-norvalinate and 61 g pyruvic acid in aqueous solution (pH 9.5 ± 0.2) in the presence of 5 % Pd/C for 12 h at -2 to +7°C afforded 44 g of N-[1(S)-(ethoxycarbonyl)butyl]-L-alanine.

RX(1) OF 1 A + B ==> C



RX(1) RCT A 39256-85-4

STAGE(1)

RGT D 1310-73-2 NaOH
SOL 7732-18-5 Water
CON 0 - 5 deg C, pH 7.0

STAGE(2)

RCT B 127-17-3
RGT D 1310-73-2 NaOH
SOL 7732-18-5 Water
CON 0 - 5 deg C, pH 9.5

STAGE(3)

RGT E 1333-74-0 H₂
CAT 7440-05-3 Pd
SOL 7732-18-5 Water
CON 12 hours, -2 - 7 deg C

STAGE(4)

RGT F 12408-02-5 H⁺
CON neutralized

PRO C 82834-12-6

NTE stereoselective

L2 ANSWER 2 OF 4 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 143:367597 CASREACT [Full-text](#)

TITLE: Process for the preparation of perindopril

INVENTOR(S): Kankan, Rajendra Narayanrao; Rao, Dharmaraj
Ramachandra

PATENT ASSIGNEE(S): Neopharma Limited, UK

SOURCE: Brit. UK Pat. Appl., 21 pp.

CODEN: BAXXDU

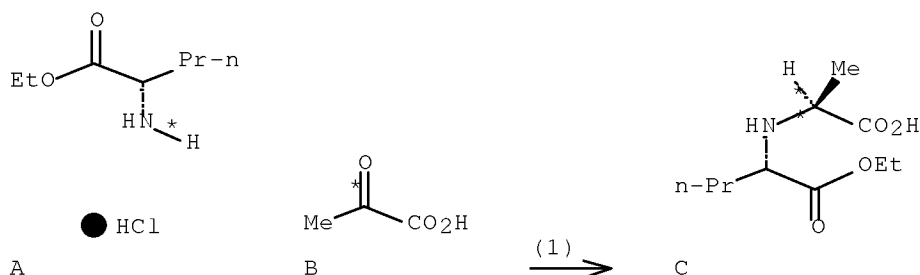
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2413128	A	20051019	GB 2004-8258	20040413
AU 2005232938	A1	20051027	AU 2005-232938	20050407
CA 2562843	A1	20051027	CA 2005-2562843	20050407
WO 2005100317	A1	20051027	WO 2005-GB1355	20050407
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1751107	A1	20070214	EP 2005-732439	20050407
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007532616	T	20071115	JP 2007-507836	20050407
IN 2006DN06462	A	20070831	IN 2006-DN6462	20061101
KR 2007054142	A	20070528	KR 2006-723684	20061113
US 20070185335	A1	20070809	US 2007-599918	20070409
PRIORITY APPLN. INFO.:			GB 2004-8258	20040413
			WO 2005-GB1355	20050407

OTHER SOURCE(S): MARPAT 143:367597

AB A process for preparing perindopril or a pharmaceutically-acceptable salt comprises coupling a 4-halo-, 4-alkoxy- or 4-nitrobenzyl ester of (2S,3aS,7aS)-2-carboxyoctahydroindole with N-[(S)-1-carbethoxybutyl]-L-alanine (1) in the presence of DCC and HOBT, followed by catalytic hydrolysis. The starting ester was obtained from (S)-indoline-2-carboxylic acid by hydrogenation-esterification and 1 was obtained from norvaline Et ester and pyruvic acid under catalytic hydrogenation conditions. The method was applied to the synthesis perindopril erbumine (20.5 g obtained from 24 g 4-chlorobenzyl ester and 21.26 g 1).

RX(1) OF 10 A + B ==> C...



RX(1) RCT A 40918-51-2

STAGE(1)

RGT D 1310-73-2 NaOH
SOL 64-17-5 EtOH
CON 30 minutes, 10 deg C

STAGE(2)

RCT B 127-17-3
SOL 64-17-5 EtOH
CON 30 minutes, 10 deg C

STAGE(3)

RGT E 1333-74-0 H2
CAT 7440-05-3 Pd
CON 8 hours, room temperature, 7 atm

PRO C 82834-12-6

NTE stereoselective

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 4 CASREACT COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 135:137711 CASREACT Full-text

TITLE: Synthesis of N-[(S)-1-carboxybutyl]-(S)-alanine esters
for synthesis of perindopril

INVENTOR(S): Souvie, Jean-Claude

PATENT ASSIGNEE(S): Adir et Compagnie, Fr.

SOURCE: PCT Int. Appl., 8 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

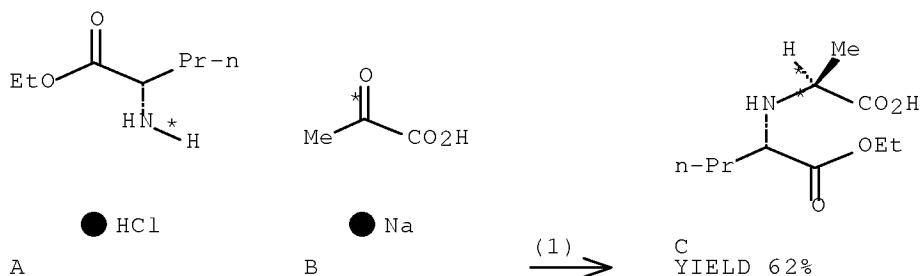
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WO 2001056353	A2	20010809	WO 2001-FR959	20010330
WO 2001056353	A3	20020418		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2807037	A1	20011005	FR 2000-4112	20000331
FR 2807037	B1	20020510		
CA 2404700	A1	20010809	CA 2001-2404700	20010330
CA 2404700	C	20070220		
AU 2001048433	A	20010814	AU 2001-48433	20010330
HU 2001001335	A2	20011128	HU 2001-1335	20010330
HU 2001001335	A3	20021128		

EP 1268398	A2	20030102	EP 2001-921440	20010330
EP 1268398	B1	20050608		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003534241	T	20031118	JP 2001-556065	20010330
JP 3930322	B2	20070613		
BR 2001009609	A	20040113	BR 2001-9609	20010330
NZ 521324	A	20040326	NZ 2001-521324	20010330
EE 200200553	A	20040415	EE 2002-553	20010330
EE 5079	B1	20081015		
CN 1171855	C	20041020	CN 2001-807493	20010330
AU 2001248433	B2	20041028	AU 2001-248433	20010330
AT 297377	T	20050615	AT 2001-921440	20010330
PT 1268398	T	20050930	PT 2001-921440	20010330
ES 2242743	T3	20051116	ES 2001-921440	20010330
AP 1483	A	20051231	AP 2002-2628	20010330
W: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW				
IN 2002MU00596	A	20040417	IN 2002-MU596	20020703
ZA 2002007150	A	20030905	ZA 2002-7150	20020905
IN 2002MN01255	A	20040626	IN 2002-MN1255	20020913
US 20030045744	A1	20030306	US 2002-221973	20020916
US 6818788	B2	20041116		
MX 2002009378	A	20030212	MX 2002-9378	20020925
NO 2002004616	A	20020926	NO 2002-4616	20020926
BG 107234	A	20030731	BG 2002-107234	20021030
HK 1053301	A1	20050318	HK 2003-105541	20030801
PRIORITY APPLN. INFO.:			FR 2000-4112	20000331
			WO 2001-FR959	20010330

OTHER SOURCE(S): MARPAT 135:137711

AB Title alanine derivs. (S)-RO₂CCHPr-L-Ala-OH (R = C₁-C₆ alkyl) were prepared by condensation of sodium pyruvate with (S)-RO₂CCHPrNH₂.HCl under hydrogen pressure and 5% Pd/C as catalyst. In an example, hydrogenation of a mixture of 3 kg (S)-Et norvalinate hydrochloride and 2 kg sodium pyruvate in NaOH aqueous solution over 5% Pd/C at 35° and 1.2 bar pressure afforded 62% N-[(S)-1-carbethoxybutyl]-(S)-alanine.

RX(1) OF 1 A + B ==> C

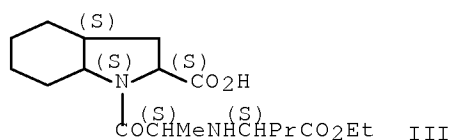


RX(1) RCT A 40918-51-2, B 113-24-6
 RGT D 1310-73-2 NaOH, E 1333-74-0 H₂
 PRO C 82834-12-6
 CAT 7440-05-3 Pd

SOL 7732-18-5 Water
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 4 CASREACT COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 111:134746 CASREACT Full-text
 TITLE: Preparation of N-[(alkoxycarbonyl)alkyl]-L-alanines as
 intermediates for carboxyalkyl dipeptides
 INVENTOR(S): Vincent, Michel; Baliarda, Jean; Marchand, Bernard;
 Remond, Georges
 PATENT ASSIGNEE(S): ADIR, Fr.
 SOURCE: Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

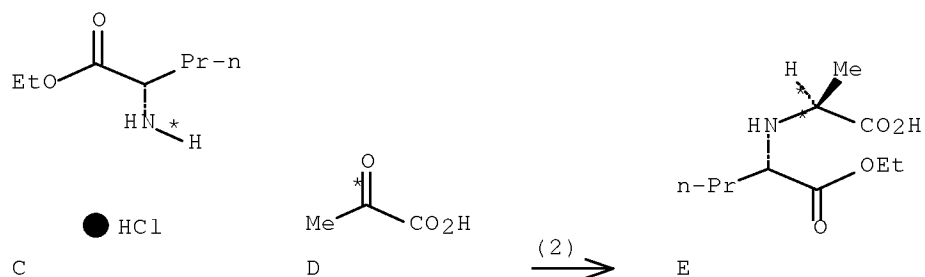
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 308340	A1	19890322	EP 1988-402338	19880916
EP 308340	B1	19910313		
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FR 2620699	A1	19890324	FR 1987-12901	19870917
FR 2620699	B1	19900601		
CA 1340570	C	19990601	CA 1988-577077	19880907
DK 8805150	A	19890318	DK 1988-5150	19880915
DK 172005	B1	19970915		
AU 8822355	A	19890323	AU 1988-22355	19880916
AU 606992	B2	19910221		
JP 01110652	A	19890427	JP 1988-232124	19880916
JP 06099373	B	19941207		
ZA 8806930	A	19890530	ZA 1988-6930	19880916
US 4902817	A	19900220	US 1988-245353	19880916
AT 61566	T	19910315	AT 1988-402338	19880916
ES 2033451	T3	19930316	ES 1988-402338	19880916
PRIORITY APPLN. INFO.:			FR 1987-12901	19870917
			EP 1988-402338	19880916
OTHER SOURCE(S):			MARPAT 111:134746	
GI				



AB The title compds., (S,S)-HO₂CCHMeNHCHR₁CO₂R₂ (I; R₁ = alkyl; R₂ = H, alkyl),
 useful as intermediates for carboxyalkyl dipeptides R₃CO-Q-COCHMeNHCHR₂ (II;
 R₃ = H, alkyl; Q = a residue of indoline, isoindoline, tetrahydroquinoline,
 perhydroindole, perhydroisoindole, perhydroisoquinoline, etc.), notably
 perindopril (III), an antihypertensive, are prepared via esterification of
 (S)-H₂NCHR₁CO₂H (IV) with R₂OH and reaction of the resulting (S)-H₂NCHR₁CO₂R₂
 with pyruvic acid under catalytic hydrogenation conditions. (S)-H₂NCHPrCO₂Et

(preparation given) was reacted with pyruvic acid under hydrogenation in the presence of Pd/C to give (S,S)-HO₂CCHMeNHCHPrCO₂Et.

RX(2) OF 3 ...C + D ==> E



RX(2) RCT C 40918-51-2, D 127-17-3
PRO E 82834-12-6

=> log off

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 13:57:33 ON 08 MAR 2009